

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions and listings of claims in the application. No new matters are added with the amendments presented herein. Entry and consideration of the amendments is respectfully requested.

LISTINGS OF CLAIMS:

Please amend the claims as indicated below:

1. (Currently Amended) An illumination device for display systems comprising:
a plurality of light sources distributed on a plane with a light distribution surface area 'S'; and
at least one light diffusing plate optically coupled to the plurality of light sources and having a light incidence area for receiving light from the plurality of light source, wherein the light distribution surface area 'S' is at least greater than the light incidence area of the at least one light-diffusing plate; and
a device case enclosing the plurality of light sources, wherein the device case comprises a plurality of sidewalls having an inner surface configured to reflect light from the plurality of light sources, wherein a portion of at least one of the plurality of sidewalls of the device case is inclined at an angle in the range of about 60 degrees to less than 90 degrees relative to the plane of the plurality of light sources.
2. (Original) An illumination device according to claim 1, wherein
the display system comprises a display panel having a display area for displaying images;
the display panel is optically coupled to the at least one light-diffusing plate; and
the light incidence area of the at least one light-diffusing plate corresponds to the display area.

3. (Previously Presented) An illumination device according to claim 2, wherein the display area has a width 'A' and a length 'B'; each one of the plurality of light sources is separated from adjacent light sources by a pitch 'G'; and the light distribution surface area S is confined to the range defined by $(A+G) \times (B+G) \leq S \leq (A + 3G) \times (B + 3G)$.

4. (Original) An illumination device according to claim 2, wherein the display panel is a liquid crystal display panel.

5. (Original) An illumination device according to claim 1, wherein the plurality of light sources are light emitting diodes.

6. (Original) An illumination device according to claim 1, wherein the plurality of light sources are distributed in an array.

7. (Cancelled)

8. (Cancelled)

9. (Previously Presented) An illumination device according to claim 1, wherein a portion of at least one of the plurality of sidewalls of the device case is curved.

10. (Previously Presented) An illumination device according to claim 1, wherein the inner surface of at least one of the plurality of sidewalls of the device case is configured to scatter light within the device case.

11. (Cancelled)

12. (Currently Amended) An illumination device for a display system comprising:
a light guide plate having at least one side edge surface and a light-emerging surface, wherein the at least one side edge surface is substantially orthogonal to the light-emerging surface; and
a plurality of light sources optically coupled to the light guide plate at the at least one side edge surface, wherein the plurality of light sources is placed along a length 'M' that is at least greater than a length of the at least one side edge surface of the light guide plate; and
a device case enclosing the plurality of light sources, wherein the device case comprises a plurality of side-walls having an inner surface configured to reflect light from the plurality of light sources, wherein a portion of at least one of the plurality of sidewalls of the device case is inclined at an angle in the range of about 60 degrees to less than 90 degrees relative to a plane of the plurality of light sources..

13. (Original) An illumination device according to claim 12, wherein
the display system comprises a display panel having a display area for displaying images;
the display panel is optically coupled to the light guide plate;
the display panel is substantially parallel to the light-emerging surface of the light guide plate; and
at least one side of the display area is substantially parallel to the at least one side edge surface of the light guide plate.

14. (Original) An illumination device according to claim 13, wherein
the at least one side of the display area that is substantially parallel to the at least one side edge surface of the light guide plate has a length 'B';
each one of the plurality of light sources is separated from adjacent light sources by a pitch 'G'; and
the length 'M' is confined to the range defined by $(B + G) \leq M \leq (B + 3G)$.

15. (Original) An illumination device according to claim 13, wherein the display panel is a liquid crystal display panel.

16. (Original) An illumination device according to claim 12, wherein the plurality of light sources are distributed in an array.

17. (Original) An illumination device according to claim 12, wherein the plurality of light sources are light emitting diodes.

18. (Cancelled)

19. (Cancelled)

20. (Previously Presented) An illumination device according to claim 12, wherein a portion of at least one of the plurality of sidewalls of the device case is curved.

21. (Previously Presented) An illumination device according to claim 12, wherein the inner surface of at least one of the plurality of sidewalls of the device case is configured to scatter light within the device case.

22. (Cancelled)

23. (New) An illumination device for display systems comprising:
a plurality of light sources distributed on a plane with a light distribution surface area ‘S’; and
at least one light diffusing plate optically coupled to the plurality of light sources and having a light incidence area for receiving light from the plurality of light source, wherein the light distribution surface area ‘S’ is at least greater than the light incidence area of the at least one light-diffusing plate; and

a device case enclosing the plurality of light sources, wherein the device case comprises a plurality of sidewalls having an inner surface configured to reflect light from the plurality of light sources, wherein the inner surface of the sidewalls can include a plurality of edges that are configured to scatter light within the case to further enhance the illumination.

24 (New) An illumination device for a display system comprising:

a light guide plate having at least one side edge surface and a light-emerging surface, wherein the at least one side edge surface is substantially orthogonal to the light-emerging surface; and a plurality of light sources optically coupled to the light guide plate at the at least one side edge surface, wherein the plurality of light sources is placed along a length 'M' that is at least greater than a length of the at least one side edge surface of the light guide plate; and a device case enclosing the plurality of light sources, wherein the device case comprises a plurality of side-walls having an inner surface configured to reflect light from the plurality of light sources, wherein the inner surface of the sidewalls can include a plurality of edges that are configured to scatter light within the case to further enhance the illumination.